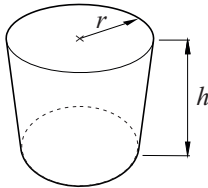
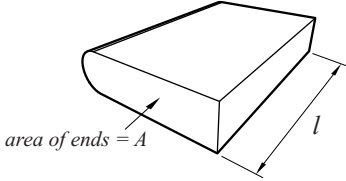
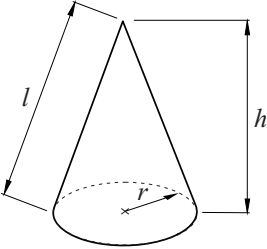
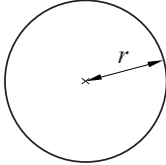
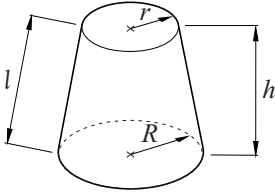
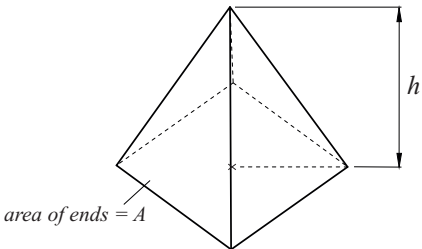


|   |  |
|---|--|
|    | <p><b>cylinder</b></p> <p>volume = <math>\pi r^2 h</math></p> <p>curved surface area = <math>2\pi r h</math></p> <p>total surface area = <math>2\pi r h + 2\pi r^2</math></p> <p>= <math>2\pi r (r + h)</math></p>   |
|    | <p><b>any solid having a uniform cross-section</b></p> <p>volume = <math>A l</math></p> <p>curved surface area = <math>\text{perimeter of cross-section} \times l</math></p> <p>total surface area = <math>\text{curved surface area} + \text{area of ends}</math></p> |
|   | <p><b>cone</b></p> <p>volume = <math>\frac{1}{3} \pi r^2 h</math> (<math>h = \text{vertical height}</math>)</p> <p>curved surface area = <math>\pi r l</math> (<math>l = \text{slant height}</math>)</p> <p>total surface area = <math>\pi r l + \pi r^2</math></p>    |
|  | <p><b>sphere</b></p> <p>volume = <math>\frac{4}{3} \pi r^2 h</math></p> <p>curved surface area = <math>4\pi r^2</math></p>   |
|  | <p><b>frustrum of a cone</b></p> <p>volume = <math>\frac{1}{3} \pi h (R^2 + Rr + r^2)</math></p> <p>curved surface area = <math>\pi (R + r) l</math></p> <p>total surface area = <math>\pi (R + r) l + \pi R^2 + \pi r^2</math></p>                                    |
|  | <p><b>pyramid</b></p> <p>volume = <math>\frac{1}{3} A h</math></p>   |